

U.S. Army Transportation School
Deployment and Deployment Systems Department
Strategic Deployment Division

“Preparation of Unit Supplies for Air Movement”

612-602-02 UMODPC

500-500-15 TOBC

Practical Exercise

- ACTION:** Upon completion of this Practical Exercise, you will possess a better understanding of the mathematical procedures used in determining vehicle C/B computations and publications used to aid unit movement by air.
- CONDITION:** Practical Exercise and classroom instruction.
- STANDARD:** To receive a "GO" for this Practical Exercise, you must compute the following center of balance problems and answer the following questions with 100% accuracy (within the one hour timeframe).

1. Determine the C/B for the following M1008 CUCV, 5/4-Ton truck.

FAW (W1)	3400 Pounds	D1 = 37 Inches
RAW (W2)	2800 Pounds	D2 = 169 Inches

CB FFE = ____ Inches.

2. Determine the C/B for the following M35A2, 2-1/2 Ton truck.

W1 = 6000 Pounds	D1 = 38 Inches
W2 = 4900 Pounds	D2 = 168 Inches
W3 = 4900 Pounds	D3 = 216 Inches

CB FFE = ____ Inches.

3. Determine the C/B for the following M936, 5-Ton wrecker truck.

W1 = 12500 Pounds	D1 = 70 Inches
W2 = 12900 Pounds	D2 = 222 Inches
W3 = 12800 Pounds	D3 = 276 Inches

CB FFE = ____ Inches

4. Determine the C/B of the following M978 tanker truck.

W1 = 10700 Pounds	D1 = 76 Inches
W2 = 11700 Pounds	D2 = 136 Inches
W3 = 8600 Pounds	D3 = 286 Inches
W4 = 8000 Pounds	D4 = 346 Inches

CB FFE = _____ Inches.

5. Determine the C/B of the following M911 tractor w/M747 trailer attached as a single item for C/B computation.

FAW = 16000 Pounds	D1 = 60 Inches
IAW = 16950 Pounds	D2 = 265 Inches
IAW = 16950 Pounds	D3 = 325 Inches
IAW = 5000 Pounds	D4 = 585 Inches
IAW = 5000 Pounds	D5 = 633 Inches
IAW = 5000 Pounds	D6 = 681 Inches
RAW = 5000 Pounds	D7 = 729 Inches

CB FFE = _____ inches.

6. Vehicles will normally be transported at a reduced _____.
7. What do the letters FFE mean? _____.
8. Cargo preparation includes weighing, _____, _____, and palletizing.
9. What is the requirement for an item (cargo) to be marked with a C/B marking?
_____ OR _____.
10. What is the maximum fuel level for wheeled engine-powered support equipment connected to a prime mover, when deploying under a "Chapter 3" (hazmat reg.) deployment? _____
11. Vehicles or engine-powered support equipment air transported on a KC-10 aircraft (Chap. 3, hazmat reg.) may have a maximum fuel in tank level of

12. All helicopters may be air transported with 3/4-tank of fuel? YES / NO
13. Is it a requirement to determine all vehicle and trailer axle weights? YES / NO
14. What is the form used to manifest passengers for air transport? _____
15. What is the fuel level authorized for a single axle generator trailer with its trailer tongue resting on the aircraft cargo compartment floor? _____